

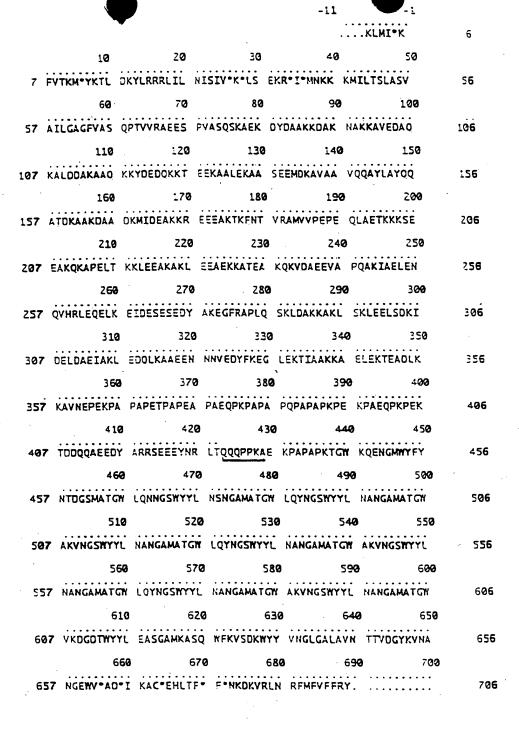
MEDLQKALEAQS RA PPRQROS 31 ASQSRRP GRD 51 RRRGNRGRGQRRDWS **b** ú b b 121 ELGPPTNPFOAAVARGLRPP 151 EACYTS WLWS EGOGAV FYRV OLH FTNLGTP 131 PLDEOGRWOPALMYNPCGPEPPAHVVRAYN ZII O P A G D V R G V W G K G E R T Y A E Q D F R V G G T R W H 241 R L L R M P V R G L D G D S A P L P P H T T E R I E T R S A ATVAVGTARA 271 R H P W R I R F тыр трревыйн сон үсин и и 301 G L Q P R A D M A A 331 Q L P F L G H D G H H G G T L R V G Q H Y R N A S D V L P G 361 H W L Q G G W G C Y N L S D W H Q G T H V C H T K H M D E W EST CVEHARPPPATPTPLTTAANSTTAATPATA 421 PAPCHAGLNDSCGGFL'SGCGPMRLRHGADT 451 R C G R L I C G L S T T A Q Y P P T R F G C A M R W G L P P 4S1 W E L V V L T A R P E D G W T C R G V P A H P G A R C P E L 511 V S P M G R A T C S P A S A L W L A T A N A L S L D H A L A MVCRRACRRGAAALTA TYLCTAPGCATQAP YGEE AF KIVD G 631 CICEIPTOVSCEGLGAWVPAAPCARIWNGT WAVNAYSSGGYAQLASY GHSĎAACWGF EPAF TYRYKFHTETRTVWQ SYVQHPHK 751 L S.V A G V S C N V T T E H P F C N T P H G Q L E V Q V P P 781 D P G D L V E Y I M N Y T G N Q Q S R W G L S11 DWASPVCQRHSPDCSRLVGA 341 D A D D P L L R T A P G P G E V W V T P V I G S Q A R K C G GH 901 P. G. P. L. G. L. K. F. K. T. V. R. P. V. A. L. P. R. T. L. A. P. P. 931 CYQCGTPALVEGLAPGGGNCHLTVNGEDVG 961 A V P P G K F V T A A L L N T P P P Y HTTAVS SFTGVYYG 1021 W A E W A A A H W W Q L T L G A T C À L P L A G L L A C C A NO51 K C L Y Y L R G A I A P R

10 15 TPITMEDLQKALEAQSRALRAELAAG 31 A S Q S R P R P P R Q R D S S T S G D D S G R D S G G P R 51 RRRGNRGRGQRRDWSRAPP PPRHQTGRGGSAPRP 121 EL GPP TNP FOAAVAR GLRPPLHOPDTEAPT 151 E A C V T S W L W S E G Q G A V F Y R V D L H F T N L G T P 131 PLDEDGRWOPALMYNPCGPEPPAHVVRAYN 211 Q P A G D V R G V W G K G E R T Y A E Q D F R V G G T R W H 241 R L L R M P V R G L D G D S A P L P P H T T E R I E T R S A 271 RHPWRIRFGAPQAFLAGLLLATVAVGTARA 301 G L Q P R A D M A A P P T L P Q P P R A H G Q H Y G H H H H — 331 Q L Р F L G Н D G Н Н G G T L-- Ř V G Q Н Y R N A S D V L P G 361 Н Ж L Q G G W G C Y N L S D W H Q G Т H V C H T K H M D F W 391 C V E H A R P P P A T P T P L T T A A N S T T A A T P A T A 421 PAPCHAGLNDSCGGFLSGCGPMRLRHGADT 451 R C G R L I C G L S T T A Q Y P P T R F G C A M R W G L P P 4S1 W E L V V L T A R P E D G W T C R G V P A H P G.A R C P E L 511 V S P M G R A T C S P A S A L W L A T A N A L S L D H A L A 541 A F'V L S V P W V L I F M V C R R A C R R R G A A A L T A 571 V V L Q G Y N P P A Y G E E A F T Y L C T A P G C A T Q A P 601 V P V ŘLA G V R F E S K I V D G G C F A P W D L E A Ť G A 631 CICEIPTOVS CEGLGAWV PAAPCARIWN GT 661 Q R A C T F W A V N A Y S S G G Y A Q L A S Y F N P G G S Y 691 Y K Q Y H P T A C E V E P A F G H S D A A C W G F P T D T V 721 M S V F A L A S Y V Q H P H K T V R V K F H T E T R T V W Q 751 L S V A G V S C N V T T E H P F C N T P H G Q L E V Q V P P 781 D P G D L V E Y I M N Y T G N Q Q S R W G L G S P N C H G P S11 D W A S P V C O R H S P D C S R L V G A T P E R P R L R L V 841 DADDPLLRTAPGPGEVWVTPVIGSQARKCG 871 L H I R A G P Y G H A T V E M P E W I H A H T T S D P W H P 901 P G P L G L K F K T V R P V A L P R T L A P P R N V R V T G 931 CYQCGTPALVEGLAPGGGNCHLTVNGEDVG 951 A V P P G K F Y T A A L L N T P P P Y Q V S C G G E S D R A 991 S A R V I D P A A Q S F T G V V Y G T H T T A V S E T R Q T 1021 W A E W A A A H W W Q L T L G A T C A L P L A G L L A C C A 1051 K C L Y Y L R G A I A P R

	10	20	30	40	50	
1	MGARASVLSG	GELDRWEKIR	LRPGGKKKYK	LKHIVWASRE	LERFAVNPGL	50
	60	70	80	90	100	
51	LETSEGCROI	LGQLQPSLQT	GSEELRSLYN	TVATLYCVHQ	RIEIKDTKEA	100
	110	120	130	140	150	
01	LDKIEEEQNK	SKKKAQQAAA	OTCHSSQVSQ	NYPIVQNIQG	QMVHQAISPR	150
	160	170	180	190	200	
151 [°]	TLNAMVKVV	E EKAFSPEVIP	MFSALSEGAT	PODLNTMLNT	VGGHQAAMQM	200
	210				250	
201	LKETINEEA	A EWORVHPVHA	GPIAPGOMRE	PRGSDIAGTT	STLQEQIGWM	2 50
	z 60					
25:	L THMPPIPY	E TYKRWIILG	NKIYRMYSP	SINDIROCP	EPFRDYVDRF	300
	. 310	320	33	2 34	ø 350)
30	1 YKTLRAEQ	AS QEYKNWMTE	T LLVQNANPD	C KTILKALGP	A ATLEEMMTAC	350
	36	370	a 38	9 39	90 400	9
35	1 QGVGGPGH	KA RVLAEAMSO	MMITATHT V	R GNFRNQRKM	N KCFNCGKEGH	400
	41	10 42	0 43	30 4	40 45	0
46	1 TARNCRAP	RK KGCMKCGKI	G HOMKDCTE	RQ ANFLGKIC	P TREGOGIFF	450
	4(60 47		89 4		. .
A	S1 ADOSOOPI	HHE ERADOSOO				. 500

	. 20	30	40	50	
MRVKEKYOHL W	RWGWKWGTM LI	GILMICSA TE	KLWYTVYY G	VPVWKEATT	50
60	. 70	80	90	100	
51 TLFCASDAKA Y	DTEVHNVWA TI	HACVPTOPN PO	EVVLVNVT E	NENMWKNOM	100
110	120	130	140	150	
101 VEQMHEDIIS L	MDQSLKPCV K	LTPLCVSLK CT	DLGNATHT I	SZZZNTNZZZ	150
160	170	180	190	200	
151 EMMMEKGEIK N	CSFNISTSI R	GKYOKEYAF F	KLDIIPID	STITYSTTON	200
210		230	240	250	
ZØ1 CNTSVITQAC	KVSFEPIPI H	YCAPAGFAI L	KCNNKTFNG	TGPCTHVSTV	2 50
260	270		2 90	300	
Z51 QCTHGIRPVV	STOLLLNGSL A	EEEVVIRSA N	FTDNAKTII	VQLNQSVEIN	300
310	320	330	340	350	
301 CTRPNNNTRK	SIRIQRGPGR	AFVTIGKIGN M	ROAHCNISR	AKWNATLKQI	3 50
3 60	370	380	390	400	
351 ASKLREOFGN	NKTIIFKOSS	GGDPETVTHS I	NCGGEFFYC	NSTQLFNSTW	400
410	420	430		450	
401 FNSTWSTEGS	NNTEGSDTIT	LPCRIKQFIN I	WQEY GKAMY	APPISGQIRC	450
460	470	480	490	500	
451 SSNITGLLLT		EIFRPGGGDM	RONWRSELYK	YKVVKIEPLG	500
510	5 20	530		550	•
501 VAPTKAKRRV	VQREKRAVGI	GALFLGFLGA	AGSTMGARSM	TLTVQARQLL	5 50
560	570	580	596	600	
551 SGTVQQQNNL	LRAIEAQQHL	LOLTVWGIKO	LQARILAVER	YLKOQQLLGI	6 00
610	620	630	. 644	650	
601 WGCSGKLICT	TAVPWNASWS	NKSLEQIMNN	MTWMEWORE	NNYTSLIHSL	6 50
6 60	670	680	69	9 700	
660 651 IEESQNQQEK					700
				- IM IVGGL VGL	700
651 IEESQNQQEK	NEOELLELDK 720	WASLWNWFNI 730	THWUWYIKII	IMIVGGLVGL	700 750
651 IEESQNQQEK	NEOELLELDK 720	WASLWNWFNI 730 SFQTHLPTPR 780	THWUWYIKII	F IMIVGGLVGL 750 E EGGERDRORS	
651 IEESQNQQEK 710 701 RIVFAVLSIV 760	NEOELLELDK 720 NRVRQGYSPL 770	WASLWNWFNI 730 SFQTHLPTPR 780	THWLWYIKII 74 GPDRPEGIE	F IMIVGGLVGL 0 750 E EGGERDRORS 00 800	
710 701 RIVFAVLSIV 760	NEOELLELDK 720 NRVRQGYSPL 770	WASLWNWFNI 730 SFQTHLPTPR 780 FSYHRLRDLL 830	THWLWYIKII 74 GPDRPEGIE 79 LIVTRIVELL	F IMIVGGLVGL 750 E EGGERDRDRS 800 GRRGWEALKY 850	750
710 701 RIVFAVLSIV 760 751 IRLVNGSLAL	NEOELLELDK 720 NRVRQGYSPL 770 IWDDLRSLCL 820	WASLWNWFNI 730 SFQTHLPTPR 780 FSYHRLRDLL 830	THWUWYIKII 74 GPDRPEGIE 79 LIVTRIVELL	F IMIVGGLVGL 750 E EGGERDRDRS 800 GRRGWEALKY 850	750
710 701 RIVFAVLSIV 760 751 IRLVNGSLAL 810	NEOELLELDK 720 NRVRQGYSPL 770 IWDDLRSLCL 820	WASLWNWFNI 730 SFQTHLPTPR 780 FSYHRLRDLL 830	THWUWYIKII 74 GPDRPEGIE 79 LIVTRIVELL	F IMIVGGLVGL 750 E EGGERDRDRS 800 GRRGNEALKY 850 ACRAIRHIPR	750 8 00

	10	20	. 30	40	50	
1	MKTTLKMTAL	AALSAFVLAG	CGSHOMKSEE	HANMQLQQQA '	VLGLNWMQDS	50
	60	70	80	90	100	
51	GEYKALAYQA	YNAAKVAFDH	AKVAKGKKKA	VVADLDETML	DNSPYACHOV	100
	110	120	130	140	150	•
101	QNNKPFDGKD	MTRWVDARQS	RAVPGAVEFN	NYVNSHNGKV	FYVTNRKDST	150
	160	170	180	190	Z 90	
15 1	EKSCTIDDMK	RLGFNGVEES	AFYLKKDKSA	KAARFAEIEK	QGYEIVLYVG	200
	210	220	230	240	250	
2 01	ONLODECHTV	YGKLNADRRA	FVDONQGKFG	KTFIMLPNAN	YGGWEGGLAE	2 50
,	260	270	286	290	300	
251	GYFKKDTQGQ	IKARLDAVQA	WDGK			300



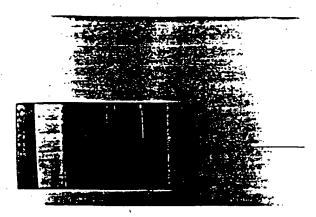
	10	20	30	40	50	
1	MNMKKATIAA	TAGIAVTAFR	APTIRSASTV	VVEAGDTLWG	IAQSKGTTVO	50
	60	70	80	98	100	
51	AIKKANNLTT	DKIVPGOKLQ	VNNEVAAAEK	TEKSVSATWL	NVRSGAGVON	100
	. 110	120	130	140	150	
101	SIITSIKGGT	KYTVETTESN	GWHKITYNDG	KTGFYNGKYL	TOKAVSTPVA	150
	160	170	180	190	200	
151	PTOEVKKETT	TQQAAPAAET	KTEVKQTTQA	TTPAPKVAET	KETPVVDQNA	200
	210	220	230	240	Z 50	
201	TTHAVKSGDT	IWALSYKYGY	NAMENTODAS	LSSSSIYVGQ	KLAIKQTANT	250
	2 60	270	280	290	300	
251	ATPKAEVKTE	APAAEKQAAP	VVKENTNTNT	ATTEKKETAT	QQQTAPKAPT	300
	310	3 20				
3 01	EAAKPAPAPS	THTNANKTHT	интититити	TNTHTPSKNT	ТИТИТИЗИТИ	350
	360	370	380	390	400	
3 51	NSHTHANQGS	SHUNSHSSAS	A I TAEAOKHL	GKAYSHGGNG	PTTFDCSGYT	400
	410	420				
401	KYVFAKAGIS	LPRTSGAQYA	STTRISESQA	KPGDLVFFDY	GSGISHVGIY	450
	460	479	480	. 490	500	
451	VGNGQMINAQ	DNGVKYDNIH	GS GNGKYLYG	FGRV		500

	10	20	30			•
1	MKVSAALLCL	LLIAATFIPQ	GLAQPDAINA	PVTCCYNFTN	RKISVQRLAS	50
	60	70	80	90	100	
51	YRRITSSKCP	KEAVIFKTIV	AKEICADPKQ	KWYQDSMOHL	DKQTQTPKT.	100

FIGURE 9

	:0	. 20	30	40	50	·
1	KSTTCCYRFI	NKKIPKORLE	SYRRTTSSHC	PREAVIFKOK	EICADPTOKW	50
	60	70	80			
51	VQDFMKHLDK	KTOTPKL				100

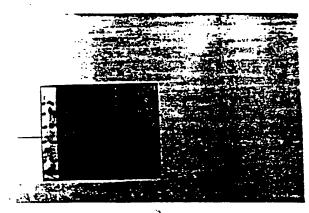
FIGURE 10



1 2/3 4/5/6 7/8 9/10

Immunoplots of RV antigens reacted with Mab's RV1, RV2, RV3 and RV4. RV antigen: Strain MPV-77 (lot# 50678, Satalogue # EL-05-04) cultured in Vero cells. Purchased from Micropix Biosystems Inc., Toronto, Intario). All Mab used as tissue culture fluid diluted 1/800.

Lane 1 - Molecular weight markers of 97, 46, 45, 31, 21, and 14kD. Lane 2/3 - RV4; lane 4/5/6 - RV3; lane 1/3 - RV2; lane + 10 - RV1. Lanes 2-9 all illustrate two proteins, 31 kD major: and 45 kD major), identified by reaction with Map's 1-4.



1 2 3 4/5 6/7

Immunoblots of bacterial antigens reacted with RV Mab RVI.

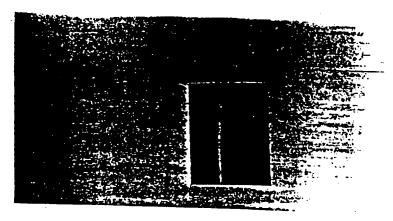
H.Influenzae b antigen from ATCC (#10211); L.monocytogenes from ATCC (#7644); S.pneumoniae from the Caribbean Regional Epidemiology Centre, CAREC. Trinidad: N.meningitidis A from ATCC #13077).

Lane 1 - Molecular weight markers of 97, 66, 45, 31, 21, and 14 kD. Lane 2 - H.Influenzae b - proteins of approximate weights of 50, 45, 40, and 23 kD.

Lane 3 - L.monocytogenes - proteins of approximate weights of 60 kD (major) and 66 kD (minor);

Lane 4/5 - S.pneumoniae - proteins of approximate weights of 69 kD and 66 kD.

Lane 6/7 - N.meningitidis - 1 protein of approximate weights of 13 kD, identified by reaction with Mab RVI.



1 2 3/4

Immunoplots of HIV1 antigens reacted with RV Mab RV1. HTLV-IIIB viral lysate, lot #54-040, purchased from Applied Biotechnologies, Inc., Md., USA.

Lane 1 - Molecular weight markers of 97, 56, 45, 31, 21, and 14 kD.

Lane 2 - Control RV antigens, 31 and 45 kD, reacting with RV1 Mab.

Lane 3/4 - HIV1 antigen of approximate weights of proteins at 24 kD and 61 kD, identified by reaction with Mab RV1.